



Appl. No. 09/404,729  
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**GROUP 3600**

Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1 Claim 1 (previously presented): A distributed market based control assembly for  
2 a structure comprising:  
3 multiple actuators, each of the multiple actuators having an actuator controller that  
4 is responsive to price information to control an applied force by the actuator on  
5 the structure; and  
6 an electrical conductor for transmitting voltage and accumulating charge, referred  
7 to as a marketwire; the marketwire being connected to each actuator controller  
8 to convey the price information to the actuator controllers by analog  
9 fluctuations in an electrical characteristic of the marketwire.

1 Claim 2: (previously presented) The distributed market based control assembly  
2 for a structure of claim 1, wherein the analog fluctuations in the electrical  
3 characteristic of the marketwire are voltage changes.

1 Claim 3: (previously presented) The distributed market based control assembly  
2 for a structure of claim 1, wherein the analog fluctuations in the electrical  
3 characteristic of the marketwire are current changes.

1 Claim 4 (currently amended): A distributed market based control assembly for  
2 a mobile structure comprising:  
3 multiple actuators, each of the multiple actuators having an actuator controller that  
4 is responsive to price information to control ~~the applied~~ an applied force by the  
5 actuator to collectively promote movement of a structure from a first position to  
6 a second position,  
7 a sensor for measuring the movement of the structure from the first position to  
8 the second position, and  
9 an electrical conductor for transmitting voltage and accumulating charge, referred  
10 to as a marketwire; the marketwire being connected to each actuator controller  
11 to convey price information to the actuator controllers by analog fluctuations in  
12 an electrical characteristic of the marketwire.

1 Claim 5: (previously presented) The distributed market based control assembly  
2 for a mobile structure of claim 4, wherein the analog fluctuations in the electrical  
3 characteristic of the marketwire are voltage changes.

1 Claim 6: (previously presented) The distributed market based control assembly  
2 for a mobile structure of claim 4, wherein the analog fluctuations in the electrical  
3 characteristic of the marketwire are current changes.

1 Claim 7 (currently amended): A distributed market based control assembly for  
2 damping structure movement comprising:  
3 multiple actuators, each of the multiple actuators having an actuator controller that  
4 is responsive to price information to control an applied force by the actuator to  
5 collectively counter movement of a structure from a first position to a second  
6 position,

7 a sensor for measuring movement of the structure from the first position to the  
8 second position, and  
9 an electrical conductor for transmitting voltage and accumulating charge, referred  
10 to as a marketwire; the marketwire being connected to each actuator controller  
11 to convey price information to the actuator controllers by analog fluctuations in  
12 an electrical characteristic of the marketwire.

1 Claim 8: (previously presented) The distributed market based control assembly  
2 for damping structure movement of claim 7, wherein the analog fluctuations in the  
3 electrical characteristic of the marketwire are voltage changes.

1 Claim 9: (previously presented) The distributed market based control assembly  
2 for damping structure movement of claim 7, wherein the analog fluctuations in the  
3 electrical characteristic of the marketwire are current changes.

1 Claim 10: (previously presented) The distributed market based control assembly  
2 for a structure of claim 1 further including a sensor connected to the marketwire  
3 for measuring the movement of the structure; operation of the sensor changing  
4 the price information by causing an analog fluctuation in the electrical  
5 characteristic of the marketwire.

1 Claim 11: (previously presented) The distributed market based control assembly  
2 for a mobile structure of claim 4, wherein the multiple actuators are air jets, and  
3 the structure is a sheet of paper; the actuator controllers being responsive to price  
4 information to control the applied forces of the air jets to collectively promote  
5 movement of the sheet of paper from a first position to the second position in a  
6 paper path.

1 Claim 12: (previously presented) The distributed market based control assembly  
2 for a mobile structure of claim 4, wherein the mobile structure is a robotic arm  
3 formed by struts interconnected by rotational elements; wherein the actuator  
4 controllers responsive to price information control the applied forces of the  
5 multiple actuators to collectively promote movement of at least one of the struts  
6 from a first position to a second position.

1 Claim 13 (previously presented): A market based control system for controlling  
2 movement of a structure comprising:  
3 multiple producing units for applying forces to the structure to effect the  
4 movement;  
5 multiple consuming units for sensing the movement of the structure; and  
6 an electrical conductor connecting the multiple producing units to the multiple  
7 consuming units; operation of each of the multiple producing units and the  
8 multiple consuming units causing an analog fluctuation in an electrical  
9 characteristic of the conductor; the electrical conductor transmitting and  
10 receiving market price information encoded as measurable analog fluctuations  
11 in the electrical characteristic of the conductor; operation of the producing units  
12 to effect movement of the structure being determined in response to the  
13 market price information.

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